



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax (613) 632-5246

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name	
PO041984	MES002-VC	1	1	Net 60	M303B1.000X03.000	303 Bar 1" X 3' ; MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft				12	12/27/2018	12		S140890	Stock	12/17/2018	\$ 132.10 / ft	13		\$1,607.66	Metaux Solutions	
		2			M304B0.250x0.500	304 Bar .250 X .500 ; MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				325		325		S140891	Stock	12/17/2018	\$ 4.05 / pcs	13		\$1,316.93	Metaux Solutions	
Total:										337			337								\$2,144.37	

Plex 12/30/2018 12:00 PM dart.Tollis.Andrew



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041984**

E-MAILED
DEC 07 2018

Supplier: MES002-VC
Metaux Solutions
2625 boul Jacques-Cartier Est
Longueuil
QC
J4N 1L7 Canada
Phone: 800 558 8858
Fax: 514 633 8044

PO No: PO041984
PO Date: 12/7/18
Due Date: 12/21/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: Net 60
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1 M		M303B1.000X03.000		303 Bar 1" X 3' : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	-	12/21/18	12 ft	0 ft	12 ft	\$132.10/ft	\$1,585.20
2 M		M304B0.250x0.500		304 Bar .250 X .500 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	12/21/18	300 pcs	0 pcs	300 pcs	\$4.0521/pcs	\$1,215.63
Grand Total:												\$2,800.83

CL



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041984

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 12/7/18 12:35 PM dart.lavoie.chantal

Shipping Order

17/12/2018

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7
Tel. : 450 641-3330

Order : 140446
Reference : 41984
Bid : 30368
Ship : PICK UP / PICK UP

Customer : 6323336**Ship To**

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel. : 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SF133	303 FLAT 1 X 3	12.17	12.17	0
	1 X 12' R/L *****			
	HT 275070			
SF14124HR	304 STAIN FLA .25" X .500" HR	325	325	0
	25 X 12' R/L			
	HT 67736108			
	LIVRE AVEC AUTRE COMMANDE			
	JP			

27/12/18

Shipping : _____**Package No :** _____**Merchandise Received:** _____**Ref. :** _____

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date
14-DEC-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

46052-J

Invoice Number
T387117

PART NUMBER/NUMÉRO DE PIÈCE

511237

SOLD TO: METAUX SOLUTIONS INC.

SHIP TO:

METAUX SOLUTIONS (RIVE-SUD)

RENDU À:

EXPÉDIÉ À:

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 303 CD ANN BAR ASTM A582

1 X 3 FLAT X 12' R/L

HEAT: 275070

ITEM: 511237

Line Total: 125 LB

Specifications:

AMS 5640 TYPE 1 V

ASTM A370 17

MIL S 852

ASTM A582 12

ASME SA320 15

ASTM A320 17

ASTM A314 15

CHEMICAL ANALYSIS

C	SI	MN	CR	MO	CU	NI	CO
0.035	0.30	1.72	17.19	0.42	0.44	8.15	0.128
P	S	ZR					
0.031	0.30	0.004					

RCPT: R547775

COUNTRY OF ORIGIN : ITALY

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	65.0	99.0	42.0	56.0	204

GRAIN SIZE : 5 -

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
14-DEC-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T387117

46052-J
PART NUMBER/NUMÉRO DE PIÈCE
511237

SOLD TO:	METAUX SOLUTIONS INC.	SHIP TO:	METAUX SOLUTIONS	(RIVE-SUD)
RENDU À:		EXPÉDIÉ À:		
	2625 BOUL JACQUES CARTIER EST		2625 BOUL JACQUES CARTIER EST	
	LONGUEUIL QC J4N 1L7		LONGUEUIL QC J4N 1	

Description: 303 CD ANN BAR ASTM A582
1 X 3 FLAT X 12' R/L
HEAT: 275070

ITEM: 511237

Line Total: 125 LB

STRAND CAST REDUCTION RATIO 15.9 TO 1
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
THERMAL TREATMENT: OK
ANN TEMP 1940 DEG F FOR 5 HR / WATER
MACRO: OK
MICRO1: OK

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303/SS BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

ASTM A582

SPECIFICATION:

PART NUMBER: M303B TTT X WWW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
AND "WWW.WWW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M303B0.500X03.000

RELEASED
R 2010-02-02

B		REFORMAT DWG. ADD SPECS (24 D8 1).		CP	10 01 05
A		NEW ISSUE		DS	02 05 29
REV		DESCRIPTION		RY	DATE
DESIGN		DART AEROSPACE LTD		REV. B	
DRAWN		HAWKESBURY, ONTARIO, CANADA		SHEET 1 OF 1	
CHECKED		DRAWING NO.		SCALE	
MFG. APPR.		M303B		NTS	
APPROVED		TITLE			
DE APPR.		303 BAR			
DATE	10.01.05				

COPYRIGHT © 2002 BY DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303B1.000X03.000
 DATE: 18/12/31

PO / BATCH NO.: P0041984/S140890

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12 ft
 QUANTITY INSPECTED: 12 ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000"
 THICKNESS RECEIVED: 1.000"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	ASTM A582
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	MT: 275070
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> DATE: <u>18/12/31</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

BOLLINGHAUS
STEEL

Bollinghaus Steel, SA
DIN EN ISO 9001:2008
TÜV CERT No. 01 100 030458

Abschmeißzeugnis/III Test Certificate/Certif. de Qualidade

EN 10204:2004 / 3.1

No.: / Nr.: / No.:
0000136628

Unsere innere Verweisung / Our Int. Ref / ref Int

5800038278 000010

Datum / Date / Data

19.12.2017

Spezifikation / Standards / Normas

TYPE 304/UNS S30400 and TYPE 304/UNS S30403 acc. to ASTM A276/A276M-16a ASTM A182/A182M-16a, ASTM A163/A163M-16, ASTM A479/A479M-16a, ASTM A320/A320M-15a, ASTM A314-15, ASTM A262-15 Pract. E, AMS QQ-S-763D, AMS 5630J, AMS 5947K, ASME SA479/SA479M, ASME SA276, ASME SA182/182M, ASME SA 193/SA193M, ASME SA320/SA320M, NACE MR0175-2015, execution as per ASTM A484/A484M-16.

Kunde / Customer / Cliente

Endgültiger Kunde / Final Customer / Cliente Final

Bestell Nr./Order: Nr./Enc.Nr. c110766

Bestell: Nr./ Order Nr./ Enc.Nr. c110766.1

Produktgruppe / Product Group / Grupo Produto

Gewicht / Weight / Peso

Bunde / Bundle / Atados

AISI 304L FLAT 1/4 X 1/2"

1.059 lb

01

Werkstoff-Nr.

Material-no.

Qualidade

1.4307

Werkstoff-Normbezeichnung / Material standard grade / Norma do material

X 2 CrNi 18-9

Beschreibung / Description / Descrição

Stainless steel flat bars, hot rolled, heat treated, straightened and pickled
US DFAR 252.225-7009: MELT SOURCE: France / MFG: Portugal.

Schmelzen Nr.
Cast nr. / Fusão nr.

67736108

Chemische Analyse in % / Chemical composition in % / Análise química em %

C	0.018	Si	0.525	Mn	1.154	P	0.029	S	0.025	Cr	18.127	Ni	8.045
Mo	0.376	Co	0.117	Cu	0.406	N	0.080	Ti	0.002	-	-	-	-

EAF+AOD

Proben Nr.
Test no.
Amostra no.

4036951.01.01

ASTM E399

Kerbschlagarbeit
Impact Test

Resiliência

{Charpy V}

[J]

Streckgrenze
Yield point

Tensão limite

Rp 0.2 %

[Ksi]

Dehngrenze
1% point

Limite de extensão

Rp 1.0%

[Ksi]

ASTM A370

Zugfestigkeit
Tensile strength

Tensão de ruptura

Rm

[Ksi]

Dehnung
Elongation

Aalongamento

A5

4D

[%]

Einengung
Reduction of area

Coef. Estricho

Z

[%]

70.1

Visuelle Kontrolle
Visual inspection
Inspeção visual

Ok

ASTM E10

Hardness

Dureza

195

[HB]

ASTM A262 Practice E

Korrosionsbeständigkeit
IC Test

Corrosão Intermetálica

Ok

ASTM A484

Maßkontrolle
Dimensional inspection
Inspeção dimensional

Ok

ASTM E112

Korngröße
Grain size

Tamanho de grão

9

Metastrophische Untersuchung
Metallographic test

Material free from
segregation defects.

Ok

396

Abrahmebeauftragter
Authorized Inspection Representative
Inspector de Qualidade
Vasco Ferreira (Q - VF)

Wärmebehandlung
Heat treatment
Tratamento térmico

Annealed/Quenched 1900 °F (1050 °C)

[water quenched]

Bemerkungen / Remarks / Observações

Country of origin: Portugal, No weld repair done.
Material is free of mercury and radiation contamination.

Bollinghaus Steel, SA

Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht.
We confirm that this material meets the specification according the mentioned standards.
Confirmamos que este material respeita as especificações de acordo com as normas referidas.

019200

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE- AISI 303 NOT ACCEPTABLE)

△ SPECIFICATION:

PART NUMBER:

ASTM A276 OR ASTM A240
M304B | T.TTT | X | WWW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
AND "WWW.WWW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M304B0.500X03.000
EG. 0.5" x 12.0" PLATE = M304B0.500X12.000



RELEASED
2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL. ADDED PLATE RELATED SPECIFICATIONS AND STANDARD TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE".	MB	10.11.25
B	REFORMAT Dwg. ADD SPECS (Z4 D6-1). REF PAR 08-020A	CP	09.07.15
A	NEW ISSUE	PH	05.06.10
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.11.25		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304B			
TITLE 304/316 BAR/PLATE			
SHEET 1 OF 1			
SCALE NTS			
DATE 10.11.25			
COPYRIGHT © 2005 BY DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M30480.250x0.500

PO / BATCH NO.: P00419815140891

DATE: 18/12/31

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.250"

QUANTITY RECEIVED: 325ft

THICKNESS RECEIVED: 0.250"

QUANTITY INSPECTED: 325ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM A276
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT: 67736108
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> DATE: <u>18/12/31</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in